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(21) International Application Number: PCT/NO94/00069 (22) International Filing Date: 25 March 1994 (25.03.94) (30) Priority Data: 931161 29 March 1993 (29.03.93) NO (71) Applicant (for all designated States except US): MALTHUS BYGG & MASKIN AS [NO/NO]; P.O. Box 245, N-4033 Forus (NO). (72) Inventor; and (75) Inventor/Applicant (for US only): MAASEIDE, Reidar [NO/NO]; Åsveien 9, N-4300 Sandnes (NO). (74) Agents: HÅMSØ, Borge et al.; Håmsø Patentbyrå, Box 171, N-4301 Sandnes (NO).		(81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: A DEVICE FOR ATTACHING CLOTH TO A SCAFFOLD (57) Abstract <p>A device for attaching cloth (8) to a scaffold for screening purposes, wherein the cloth (8) is provided with leeches (9) along the sides and is threaded into open grooves (6, 7) in a rail (3) adapted to be fastened to the stays or spires (1) of the scaffold by means of clamps (2). An open groove (5) in the rail (3) serves as a guide for a screw (4) attaching the clamp (2) to the rail (3).</p> <div> </div>		

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A DEVICE FOR ATTACHING CLOTH TO A SCAFFOLD

The invention relates to a device for attaching cloth to a scaffold for screening purposes.

It is usual to case a scaffold with cloth or tarpaulin in order to give shelter against wind and rain, but also to prevent undesired scattering of materials from pending works, e.g. in connection with sandblasting and spray painting.

It is known to use tarpaulins having loops or grommets and holes and being lashed to the scaffold with rope. A disadvantage of this known attachment method is that power concentration will arise adjacent the loops, so that the cloth breaks upon extra strains such as wind. Additionally, it is relatively time-consuming to mount the cloth.

The object of the present invention is to provide an attachment device for cloth without said disadvantages.

The object is achieved through features such as defined in the following claims.

An embodiment of the invention is described with reference to the attached drawings, wherein:

Figure 1 shows an end view of a stay or spire of a scaffold, having a fastener for cloth;

Figure 2 shows in perspective a corner of a cloth partially in engagement with a fastening device;

Figure 3 shows, seen from behind, a scaffold, wherein two sections are covered with cloth;

Figure 4 shows, seen from the end and partially in section, a horizontal profile attached to the lower edge of a cloth and to the upper edge of another cloth.

In figure 1, reference numeral 1 denotes a tubular spire of a scaffold. A clamp 2 adapted to be attached to the spire 1, is fastened to a rail 3 having a screw 4. The rail 3 is provided with a longitudinal open groove 5 adapted to receive the head of the screw 4, whereby the screw 4 may be moved freely along the rail 3. Firstly, the screw 4 is screwed into a threaded portion within the clamp 2, and the head thereof is passed into the groove. The clamp 2 is passed to desired position along the rail 3, the screw's 4 head being within the groove 5. The clamp 2 is screwed firmly to the rail 3 through turning the clamp 2 around the axis of the screw 4. An appropriate number of clamps are attached to the rail 3 in the way described and, then, the rail 3 is attached to the spire 1 of the scaffold by means of said clamps.

Two open grooves 6, 7 in the rail 3 are adapted to receive a leech 9 on a cloth 8, such as shown in figure 2. The leech 9 may be made through making a guide for a rope at the edge of the cloth 8, possibly by sewing on a rope to the cloth 8. The leech 9 may also be made from a particular edge piece, preferably of plastic, fastened to the cloth 8 along the edge thereof. The shape of the grooves 6, 7 in the rail 3 must be adapted to the profile of the leech. The clamp 2 may advantageously be constituted by half a clamp of the type ordinarily used when assembling the scaffold itself.

In each corner of the cloth 8 it may advantageously exist a hole 10 for attaching a rope, not shown, or a hoisting

device, not shown, which is used in order to pull the cloth 8 up along the rail 3 after the leech 9 of the side edges is passed into the lower end of the open groove 6 or 7 of the rail 3. Lowermost, on the horizontal leech of the cloth 8, a rail 3 may be mounted, keeping the cloth 8 stretched, either by its own weight or by means of spring devices 11, which are fastened to the ground or to the framework of the scaffold.

Rails 3 are attached by means of clamps 2 to and along spires 1 of a scaffold, such as shown in figure 3. Cloth 8 having a width adapted to the distance between two spires are passed with one leech engaging into the groove 6 in a vertical rail 3, the leech on the opposite edge of cloth 8 being passed into engagement with the groove 7 in another rail 3 located on a neighbour spire. The cloth 8 is pulled into place by means of ropes attached to the cloth 8 in hole 10.

In order to keep the cloth 8 stretched, a rail 3 may also be attached to the horizontal leech of the cloth 8 and fastened resiliently to the framework of the scaffold or to the ground. In figure 4, a rail 3 is attached on the lower horizontal leech of a cloth 8, and a screw 4 within the groove 5 transfers a force from a spring device 11 to the cloth 8, whereby the cloth 8 is kept tight. The spring device 11 will keep the cloth 8 suitably stretched.

Lowermost, against the ground, it may advantageously be mounted a cloth 12, which is attached to the rail 3 by means of an upper horizontal leech and, which at the lower edge thereof is provided with a hem 13, into which is threaded a pipe 14 of metal as weight. Should the cloth 12 be too long, the remaining portion is rolled onto the pipe 14, the roll being laid on the ground. Thereby, a screening of the scaffold entirely down to the ground is achieved.

C l a i m s

1. A device for attaching cloth (8) to a scaffold for screening purposes, c h a r a c t e r i z e d i n that the cloth (8) is provided with a leech (9) adapted to be passed into open grooves (6, 7) of a rail (3), and wherein the rail (3) is adapted to be attached to the stay or spire (1) of the scaffold.
2. A device as set forth in claim 1, c h a r a c t e r i z e d i n that the rail (3) has a longitudinal open groove (5) adapted to receive the head of a screw (4) and to prevent the screw (4) from rotating, simultaneously as the head may be passed freely along the groove (5).
3. A device as set forth in claim 1 and 2, c h a r a c t e r i z e d i n that a clamp (2) is adapted to be attached to the rail (3) by means of the screw (4) and further adapted to grip around stays or spires (1), in order to attach the rail (3) to the scaffold.

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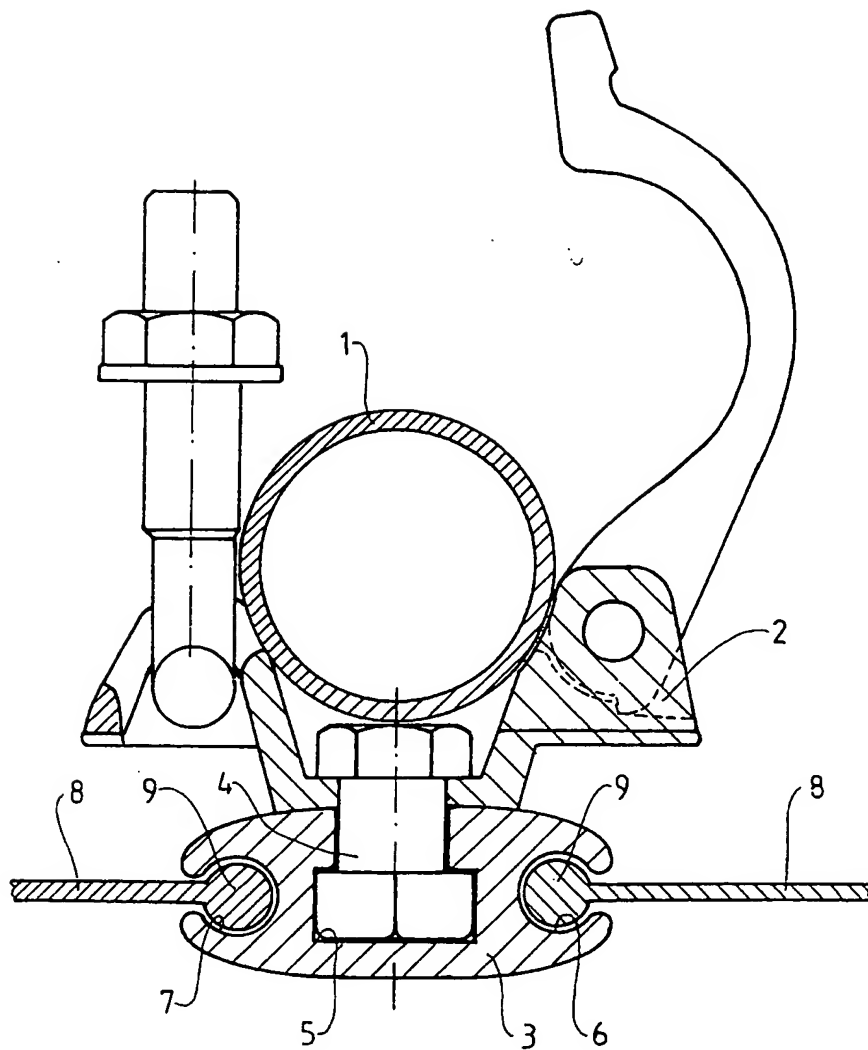


Fig.1

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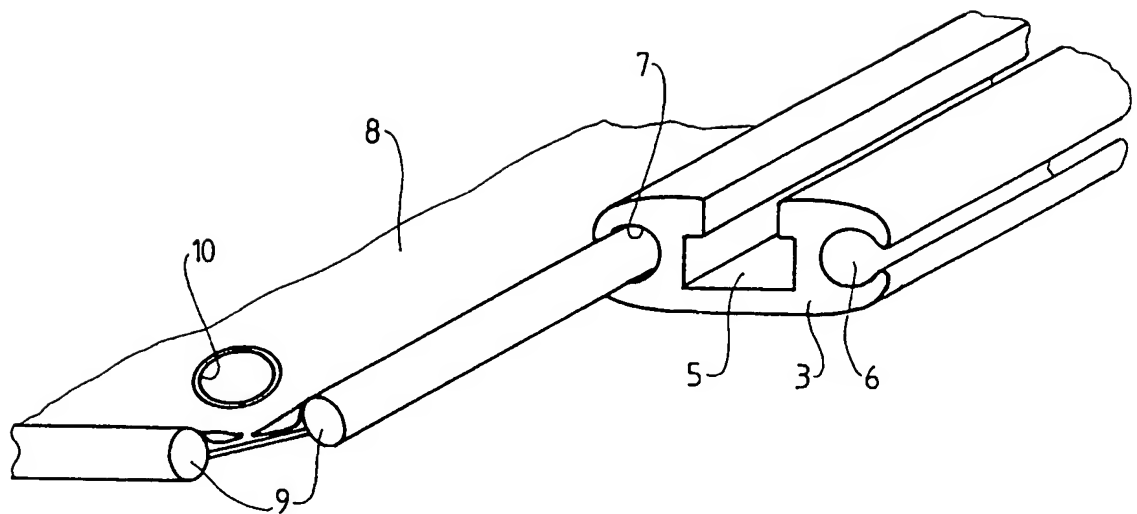


Fig. 2

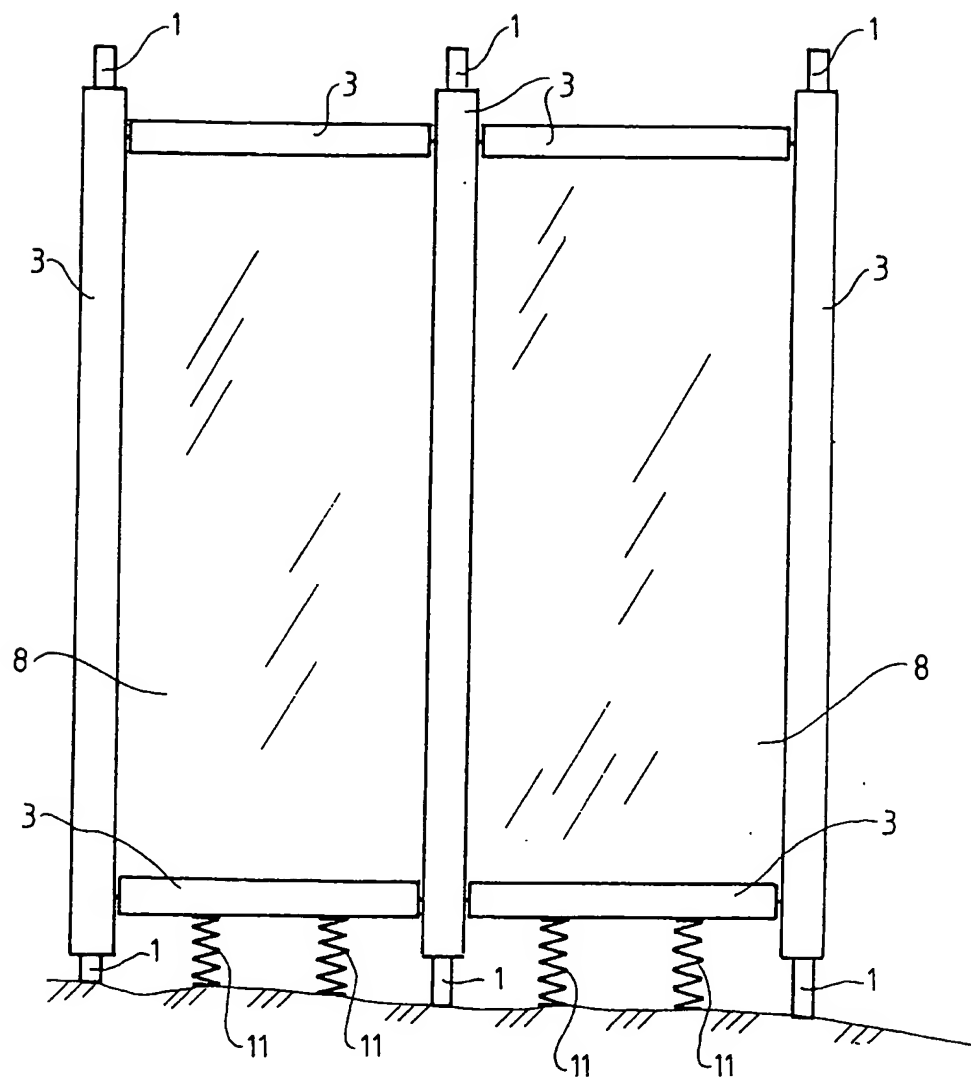
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Fig. 3

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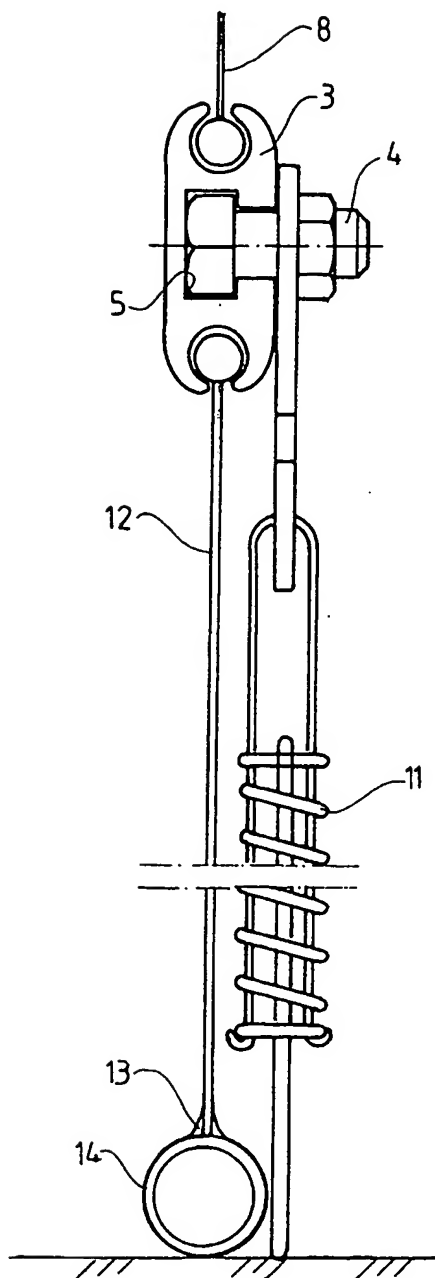


Fig.4

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 94/00069

A. CLASSIFICATION OF SUBJECT MATTER		
IPC : E04G 1/26, E04G 21/28 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC : E04G, E04H		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE, A, 2217826 (KUSTO GMBH), 25 October 1973 (25.10.73), page 13, figure 13 --	1
A	US, A, 5038889 (STEVEN R. JANKOWSKI), 13 August 1991 (13.08.91) --	1-3
A	US, A, 3121470 (A.W. STONE ET AL), 18 February 1964 (18.02.64) --	1-3
A	WO, A1, 8603538 (SVENSSON, LENNART ET AL), 19 June 1986 (19.06.86) --	1-3
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NO, B, 117878 (GUSTAV ADOLF JOHANSSON), 6 October 1969 (06.10.69) -- -----	1-3

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INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE-A-	2217826	25/10/73	NONE	
US-A-	5038889	13/08/91	CA-A- 2051591	30/04/92
US-A-	3121470	18/02/64	NONE	
WO-A1-	8603538	19/06/86	AU-A- 5231586 EP-A- 0241466	01/07/86 21/10/87
NO-B-	117878	06/10/69	NONE	

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